

ABSTRACT OF THE DISCLOSURE

5 A therapeutic system includes a guide catheter having a lumen, a sheath having an elongate body that has a lumen and an angled distal end, with the sheath extending through the lumen of the guide catheter, and a catheter extending through the lumen of the sheath. The sheath can be advanced independently beyond the distal end of the catheter, or retracted proximal from the distal end of the catheter. The sheath can also be torqued to redirect the angled distal end of the sheath.